

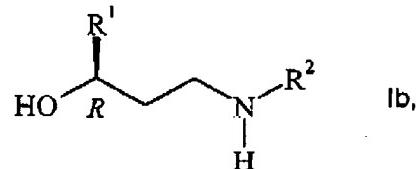
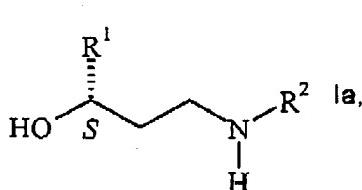
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Amendments To The Claims

This Listing Of Claims will replace all prior versions, and listings, of claims in the application.

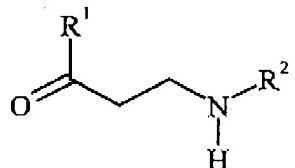
Listing of Claims:

Claim 1 (Previously Presented): A process for the preparation of an salt of a carboxylic acid with an aminoalcohol of formula:



and/or

wherein R¹ is selected from the group consisting of 2-thienyl, 2-furanyl, phenyl, 2-thienyl substituted with at least one halogen and/or at least one C₁₋₄-alkyl or C₁₋₄-alkoxy, 2-furanyl substituted with at least one halogen and/or at least one C₁₋₄-alkyl or C₁₋₄-alkoxy, and phenyl substituted with at least one halogen and/or at least one C₁₋₄-alkyl or C₁₋₄-alkoxy, and wherein R² is selected from the group consisting of C₁₋₄-alkyl, phenyl, C₁₋₄-alkyl substituted with at least one halogen and/or at least one C₁₋₄-alkyl or C₁₋₄-alkoxy, and phenyl substituted with at least one halogen and/or at least one C₁₋₄-alkyl or C₁₋₄-alkoxy,
comprising asymmetrically hydrogenating a salt of a carboxylic acid with an aminoketone of formula:

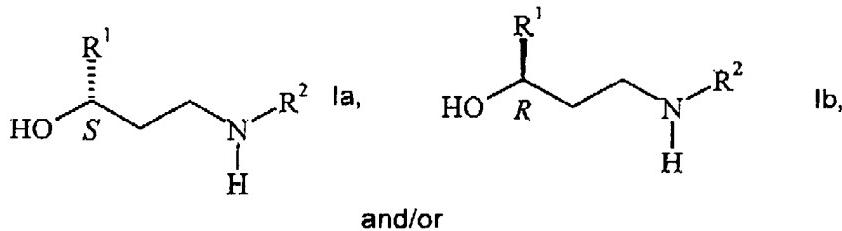


II,

wherein R¹ and R² are as defined above,

in the presence of a catalytic amount of a catalyst comprising a transition metal complex of a diphosphine ligand.

Claim 2 (Currently Amended): A process comprising preparing a salt of a carboxylic acid with an aminoalcohol of formula:



wherein R¹ is selected from the group consisting of 2-thienyl, 2-furanyl, phenyl, 2-thienyl substituted with at least one halogen and/or at least one C₁₋₄-alkyl or C₁₋₄-alkoxy, 2-furanyl substituted with at least one halogen and/or at least one C₁₋₄-alkyl or C₁₋₄-alkoxy, and phenyl substituted with at least one halogen and/or at least one C₁₋₄-alkyl or C₁₋₄-alkoxy, and wherein R² is selected from the group consisting of C₁₋₄-alkyl, phenyl, C₁₋₄-alkyl substituted with at least one halogen and/or at least one C₁₋₄-alkyl or C₁₋₄-alkoxy, and phenyl substituted with at least one halogen and/or at least one C₁₋₄-alkyl or C₁₋₄-alkoxy,

by asymmetrically hydrogenating a salt of a carboxylic acid, wherein the carboxylic acid is selected from the group consisting of substituted C₁₋₁₈-ankanoic acids, substituted monocyclic aromatic acids and substituted bicyclic acids, with an aminoketone of formula:



wherein R¹ and R² are as defined above,

in the presence of a catalytic amount of a catalyst comprising a transition metal complex of a diphosphine ligand.

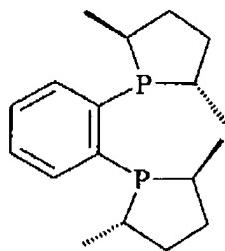
the carboxylic acid is selected from the group consisting of optionally substituted C₁₋₁₈-alkanoic acids and optionally substituted mono- and bicyclic aromatic acids.

Claim 3 (Previously Presented): The process of claim 2, wherein R¹ is 2-thienyl, optionally substituted with one or more halogen atoms, and R² is methyl or ethyl.

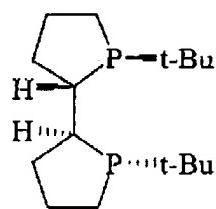
Claim 4 (Previously Presented): The process of claim 3, wherein the compound of formula II is selected from the group consisting of (S)-(-)-3-N-methylamino-1-(2-thienyl)-1-propanol, (S)-(-)-3-N-methyl-amino-1-(3-chloro-2-thienyl)-1-propanol, (R)-(+)3-N-methylamino-1-(2-thienyl)-1-propanol and (R)-(+)3-N-methylamino-1-(3-chloro-2-thienyl)-1-propanol.

Claim 5 (Previously Presented): The process of claim 4, wherein the transition metal is selected from the group consisting of rhodium, ruthenium or iridium.

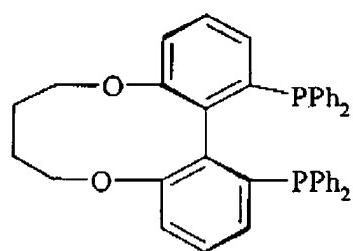
Claim 6 (Previously Presented): The process of claim 7, wherein the diphosphine ligand is selected from the group consisting of:



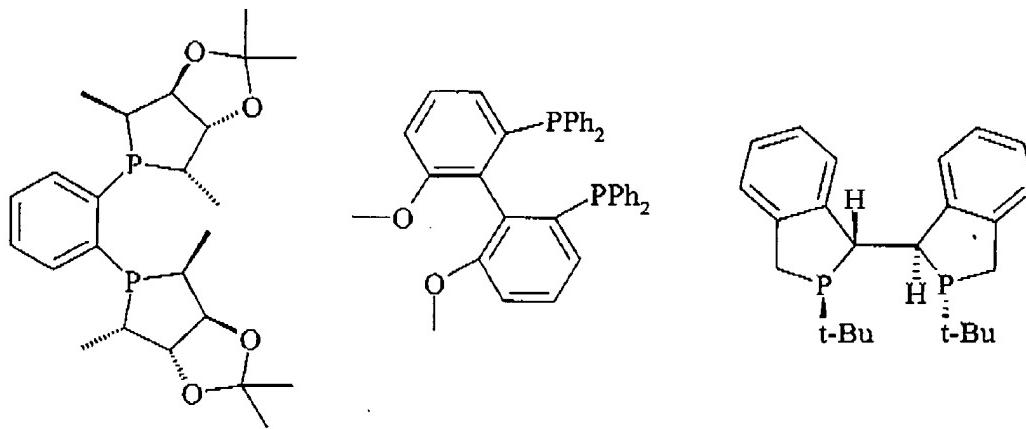
(S,S)-"Me-DuPhos",



(R,R,S,S)-"TangPhos",



(S)-"C4-TunePhos",



(S,S,S,S)-"Me-KetalPhos", (S) and (R)-"MeO-BiPhep", and "(R_P,R_P,S_C,S_C)-DuanPhos".

Claim 7 (Previously Presented): The process of claim 6, wherein the compound of formulae Ia and/or Ib is obtained from its corresponding salt with a carboxylic acid by hydrolysis in the presence of an alkali metal hydroxide or an alkaline earth hydroxide.

Claim 8 (Cancelled).

Claim 9 (Cancelled).

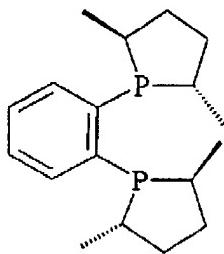
Claim 10 (Cancelled).

Claim 11 (Previously Presented): The process of claim 1, wherein the transitional metal complex of a diphosphine ligand is a transitional metal complex of an arylidiphosphine ligand or a biarylidiphosphine ligand.

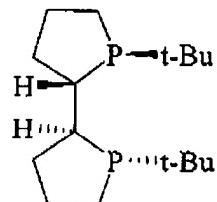
Claim 12 (Previously Presented): The process of claim 1, wherein R¹ is 2-thienyl, optionally substituted with one or more halogen atoms, and R² is methyl or ethyl.

Claim 13 (Previously Presented): The process of claim 1, wherein the transition metal is rhodium.

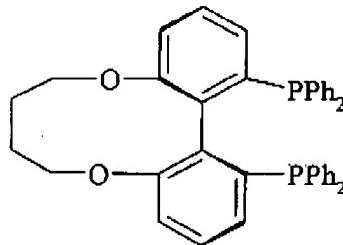
Claim 14 (Previously Presented): The process of claim 1, wherein the diphosphine ligand is selected from the group consisting of:



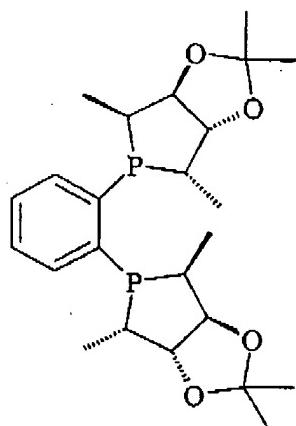
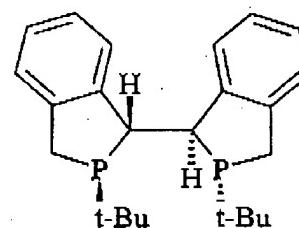
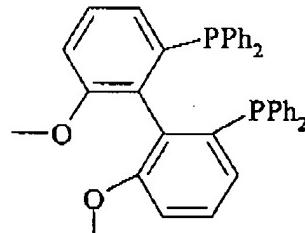
(S,S)-"Me-DuPhos",



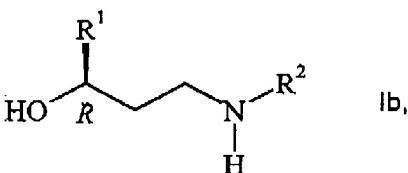
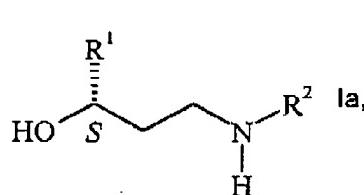
(R,R,S,S)-"TangPhos",



(S)-"C4-TunePhos",

(S,S,S,S)-"Me-KetalPhos", (S) and (R)-"MeO-BiPhos", and "(R_P,R_P,S_C,S_C)-DuanPhos".

Claim 15 (Previously Presented): A process for the preparation of an salt of a carboxylic acid with an aminoalcohol of formula:



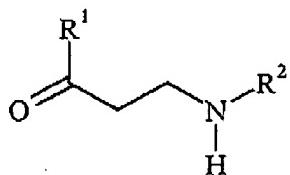
and/or

wherein R¹ is selected from the group consisting of 2-thienyl, 2-furanyl, phenyl, 2-thienyl substituted with at least one halogen and/or at least one C₁₋₄-alkyl or C₁₋₄-alkoxy, 2-furanyl substituted with at least one halogen and/or at least one

C_{1-4} -alkyl or C_{1-4} -alkoxy, and phenyl substituted with at least one halogen and/or at least one C_{1-4} -alkyl or C_{1-4} -alkoxy, and wherein R^2 is selected from the group consisting of C_{1-4} -alkyl, phenyl, C_{1-4} -alkyl substituted with at least one halogen and/or at least one C_{1-4} -alkyl or C_{1-4} -alkoxy, and phenyl substituted with at least one halogen and/or at least one C_{1-4} -alkyl or C_{1-4} -alkoxy,

comprising:

- (i) asymmetrically hydrogenating a salt of a carboxylic acid with an aminoketone of formula:



II,

wherein R^1 and R^2 are as defined above,
in the presence of a catalytic amount of a catalyst comprising a transition metal complex of a diphosphine ligand; and

- (ii) obtaining a compound of formulae Ia and/or Ib from its corresponding salt with a carboxylic acid by hydrolysis of said corresponding salt in the presence of an alkali metal hydroxide or an alkaline earth hydroxide.

Claim 16 (Previously Presented): The process of claim 2, wherein the substituted C_{1-10} -alkanoic acid is substituted with at least one C_{1-6} alkyl, C_{1-6} alkoxy, aryl, amino, protected carbonyl, halogen, hydroxyl or further carboxylic.

Claim 17 (Currently Amended): The process of claim 2, wherein the substituted monocyclic aromatic acid is substituted with at least one member selected from the group consisting of C_{1-6} alkyl, C_{1-6} alkoxy, C_{1-6} alkoxy, halogen and hydroxyl.

Claim 18 (Currently Amended): The process of Claim 2, wherein the substituted bicyclic aromatic acid is substituted with at least one member selected from the group

consisting of C_{1-6} -alkyl, C_{1-6} -alkyl, C_{1-6} -alkoxy, halogen and hydroxyl.

Claim 19 (Cancelled).

Claim 20 (Previously Presented): The process of claim 1, wherein the carboxylic acid is a monocarboxylic acid.